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ABSTRACT OF THE DISCLOSURETWO-DIMENSIONAL IONISING PARTICLE DETECTOR

The invention relates to a two-dimensional ionising particle detector comprising a matrix of detecting fibres, each detecting fibre forming a pixel of the detector.

5 Each detecting fibre is composed of a glass capillary filled with a liquid scintillator for which the chemical composition is chosen such that the average free path of primary scintillation photons is negligible compared with the diameter (d) of the
10 capillary.

The invention is applicable, for example, to high resolution particle imagery.